



2018 INTERNATIONAL BUILDING CODE

Revised 6/3/19

Review Checklist to be filled out by Design Professional or Owner

Building Permit #:	Submittal Date:	
Building Address:		
Owner:		
Total Floor Area:	Scope of Work Area:	
Type of Construction:	Building Type:	
No. Stories:	Occupancy Classification:	
Fire Sprinklers:		
Zone District:		
Name of PUD (if applicable):		
☐ Discussed project with the Planning Division		

This checklist is compiled for plan checking purposes for use by the Division of Building and Life Safety Inspections the Fire District will also have their own checklist for their permit. The owner or architect is required to check each box throughout the checklist to verify they have submitted plans with the required information. Failure to do so will result in the plans not being reviewed. N/A can be used if not applicable. The information contained herein will also provide condensed construction information for design and job use. The checklist is not intended to indicate any change in any building code or ordinance by inference or omission.

Please circle around a checklist number to indicate that the items are on the set of plans that you are submitting. Failure to have the checklist items listed NOT on your set of plans will result in your plans going back to you or your design professional additional plan review fees may be assessed with additional wait time of 2-6 weeks. Any indicated correction not made or construction detail not shown will be assumed to be installed in accordance with the City adopted Building Codes and standards.

GENERAL:

Indicate project name and address on each drawings.
Indicate on the cover sheet of plans the name, title, address, and phone number of
designer(s) of record and a complete sheet index of all submitted plans.
Each sheet shall be sealed and signed by a Colorado licensed/registered professional
designer as required by state law.
Plans shall be complete and shall consist of architectural, structural, electrical, plumbing
life safety and mechanical drawings (where any of these elements occur in the proposed
scope of work), specifications, calculations, soils report, and supportive data.
Show all mine hazards within 200 ft. of structure. Look at City Building Website for Mine
Hazard Info.
For remodels, renovations, or a change of use or occupancy, provide a written project
narrative description of the complete scope of work included.
Provide a fully dimensioned plot plan drawn to scale. Show lot size, roads, streets,
easements, setbacks and property lines. Indicate location, size and use of all buildings
and structures. Identify adjacent tenants in multi-tenant buildings.
Provide a written description of the project scope on the cover sheet
If any work is proposed on the exterior of the building or site, provide the zone district in
which the property is located, and the applicable PUD the property is subject to. If not
known, contact the Planning Department to obtain this information prior to the
submission of a building permit.
Note that all new electrical and mechanical systems must have a commissioning report
before final inspection.

CODE ANALYSIS:

	List all adopted Codes and state this building will be built to the minimum		
	standards of the 2018 IBC, IPC, IFGC, IMC, IFC, IECC, ICC A117.1 2009 and 2017		
<u>NEC</u>			
	List the construction type as defined by the 2018 IBC.		
	Note the 2017 NEC as Adopted by the State of Colorado		
	List occupancy classification and occupant load calculations. List required occupancy		
	separations or fire resistive construction elements included for each area. (2018 IBC 302, 1004)		
	Actual floor area, number of stories and height of the building. (2018 IBC 505)		
	Exit analysis including exit width requirements and number of exits. Clearly identify all		
	doors used for exit egress. (2018 IBC 1005, 1006, 1007)		
	Indicate if building has a sprinkler system or if one will be installed. (2018 IBC 903)		
	Provide plumbing fixture calculations per 2018 IBC 2901.		
	Provide an egress plan including travel distances and the accessible means of egress		
for each floor level.			
<u>AF</u>	RCHITECTURAL:		
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	Provide a complete roof plan indicating all roof slopes and size and location of the
	primary and secondary drainage systems. Demonstrate roof top equipment location
	and distances from the edge of the roof. If new or modified screening is required,
	include height and material for screening, and height of roof top equipment being
	screened.
	Provide structural details of the roof
	Provide reflected ceiling plans for each level including ceiling heights, ceiling types,
	and access panels and lighting plan.
	Provide exterior elevations for each side of the building which contains clearly
	dimensioned overall building height and floor-to-floor heights, indicate the location of
	all doors and glazed openings.
	Provide a door schedule which clearly references doors labeled on the floor plans,
	indicate the type and size of each door, include hardware schedule and egress
	hardware.
	Provide a window schedule that specify required type, size, corresponding to each
	glazed opening indicated on the plans.
	Provide building and wall sections which clearly identify the required type and location
	of all materials for construction including wall bracing.
	Provide the location and hourly fire-rating of all fire-rated assemblies including fire
	walls, fire separation assemblies, columns, beams, shafts, floors and roofs.
	Provide complete stairway, guardrail, and handrail details. (2018 IBC 1011)
	Location and method of storage of hazardous materials with a complete Hazardous
	Materials Inventory Statement completed by a qualified professional.
	Show all Fire Separations
	Multifamily homes show details for a radon mitigation system at the foundation level
	and venting thru the roof
ACCES:	SIBILITY
	Clearly demonstrate the accessible routes and accessible entrances.
	Provide details of site and building elements such as ramps, curb ramps, accessible
	parking spaces, and passenger loading zones.

	Provide details for accessible drinking fountains, urinals, water closets, and toilet
	compartments demonstrating required clearances and mounting heights.
	Provide details for accessible bathtubs and shower compartments demonstrating
	required clearances.
	Provide details for built-in furnishings and equipment including benches, dining
	surfaces, work surfaces, sales and service counters.
	Clearly identify accessible elements with required signage. (2018 IBC 1111)
ENER	<u>GY</u>
	State which performance Path you are doing, Either City of Louisville Prescriptive,
	COMcheck, or other.
	Louisville Prescriptive Path
	 R-49 Ceiling, R-21 Walls, R-3 Hot water Piping, Basements Walls R-19, Under
	Floors exposed R-38, r-10 Under Concrete Slabs, U30 Windows, U55
	skylights, RTU 80 %, A/C -14 SEER, 90% Residential Furnace's and Boilers, 3%
	of Commercial Roofs shall have skylights unless solar panels, 90% of light
	fixtures shall contain high-efficiency lamps, light occupant sensors in commercial,
	timers on bathroom exhaust fans, structures to be built solar ready.
	Clearly demonstrate the location of the thermal envelope and indicate the insulation
	values. (2018 IECC C402.1.3)
	List all windows and glazing U Factors. (2018 IECC C402.1.4)
	Provide a 2018 Mechanical COMcheck and 2018 Lighting COMcheck Compliance
	Report.
	All COMchecks must be signed.
	Provide a vapor retarder and water-resistive barrier for exterior walls and under concrete
	floors. (2018 IECC 402.1.3)

STRUCTURAL

Provide complete structural design criteria with engineering including but not limited to
required design loads, material specifications, soils reports and structural construction
requirements.
Complete foundation plans and construction details including foundation drainage. (2018
IBC 1803, 1808)
Foundation wall and slab details, reinforcing steel sizing and spacing.
Show all mine hazards and engineering on foundations to compensate for the mine
hazards and soils report.
Provide complete structural details on all walls, floor ceilings and foundation which
clearly indicate the required connections between all wall floor, and roof framing
components including anchorage to foundation. All sections, details, and elevations shall
be clearly referenced on the foundation, floor, and roof framing plans.
Provide the locations, weight and method of supporting all mechanical equipment and
any other special fixed equipment.
Provide complete and clearly dimensioned floor framing plan for each level and roof
framing plan which indicates the materials, types, sizes, and locations for all structural
elements.

MECHANICAL

Note all Mechanical shall be installed to the 2018 IMC Provide complete plan for each floor level and roof which indicates the type, size, location of equipment and fire dampers for each air distribution system. Provide equipment schedule which includes ratings for air flow (cfm), BTU, and energy efficiency. The location, size and materials used for all ducts, plenums, vents and piping. Provide complete calculations for outdoor air ventilation based on the corresponding occupancy classification and occupant load. Mechanical Ducts outside of Building Envelope must be R-8 insulation

Complete details for exhaust hoods and associated grease duct systems with clean out
locations and indicate method of supplying makeup air, kitchen air balance/ interlocks,
hood details and equipment. (2018 IMC 501)
Provide gas piping sizing using longest length method per Appendix A IFGC.
All equipment must be listed and labeled for its use by Underwritters Laboratory or a
Nationally Recognized Testing Laboratory.
Balance report is needed for C.O.
Commissioning Report is needed for new mechanical systems
Details for mechanical fire suppression systems and hood details for all kitchens
Note that all hot water heaters and Boiler's must also be inspected by the State of
Colorado and the City of Louisville.

ELECTRICAL

	Note all shall be installed to the 2017 NEC
	City will require an Electrical Engineer to design all systems that are greater than a 600
	service.
	Provide an electrical legend showing symbols used on drawings.
	Plans shall show locations of new/existing and relocated utilization equipment.
	Plans shall indicate equipment and panel rating, as well as panel schedules which
	include all branch circuit loads. Plans shall include all affected electrical panel and
	service entrance load calculations. (2017 NEC 408, 110)
	Provide complete panel schedules with load calculations. For remodels show existing
	and new loads. Provide a one-line diagram with complete load calculations and
	maximum available fault current.
	Include complete lighting plans with fixture schedule for all new luminaires.
	Show means of egress illumination and exit signage throughout building and exit
	discharge. (2018 IBC 1008)
	Plans shall indicate all affected feeder and service entrance conductor sizes on the 1-
	line diagrams.
	Provide hazardous area plan. (2017 NEC 500.4 A)

	Commissioning Report is needed for Electrical All equipment must be listed and labeled for its use by Underwritters Laboratory or a Nationally Recognized Testing Laboratory.
<u>PLUM</u>	<u>BING</u>
	Must note all plumbing to be installed to 2018 IPC
	Two Separate water lines must be indicated on the set of plans with the size of the
	waterlines, one for the Fire Suppression System and one for the Culinary Water System.
	Cannot use Fire Water line for Culinary water.
	Isometric and floor plan view of all water, drainage, waste and vent piping, with location,
	size and material. Provide a floor plan showing all location of fixtures and types.
	Show location of clean-outs, backwater valves, water shutoff valves, back-flow
	prevention, and sand/oil and grease inceptors.
	Provide a complete three-dimensional isometric drawing of the drainage systems
	including roof drain details.
	Show interceptors/grease traps with details.
	Provide fixture counts for use and occupant loads
FIRE S	SPRINKLER .
	Must Note All Sprinklers to be installed to 2016 NFPA 13
	Attach a Louisville Fire Department permit application
	Provide address on cover sheet.
	Provide contractor information on cover sheet
	Provide type of system that's going to be installed
	Provide appropriate sprinkler cut sheets (2016 NFPA 13, 7.1)
	Provide hydraulic calculations(2016 NFPA 13, 27.2)
	Ensure an FDC(fire department connection) is included (2018 IFC, 903.3.7)
	Ensure system is tapped into a commercial line(i.e. city main) and not a domestic water
	supply (2016,NFPA 13, 5.1)

	Ensure all devices and materials are listed for fire service (2016 NFPA, 7.1)
	Provided results of flow test (2016 NFPA, 27.1)
FIRE	<u>ALARM</u>
	Attach a Louisville Fire Department permit application
	Provide legend with all devices and quantities (2018 IFC, 907.6)
	Provide device candela on plans at each visual device (2018 IFC, 907.6)
	Provide FACP location on plans
	Provide proper visual notification coverage in all required areas (2018 IFC, 907.6)
	Provide visual devices in all restrooms (2018 IFC, 907.6)
	Provide proper visual devices in all corridors (2018 IFC, 907.6)
	Show tampers switches for sprinkler control valves including PIV (2018 IFC 903.4)
	Show any kitchen hoods and connection of suppression system to alarm panel (2018)
	IFC 904.2.2)
	Show all duct detectors (2018 IFC, 907.3.1)
	Provide an updated graphic map showing the entire building (2018 IFC, 508.1.6)
FIRE	<u>DEPARTMENT</u>
	Provided site location map
	Provided 24- hour emergency phone number
	Provide a detailed description of the kind of business the company does.
	Show (FDC) fire department connection (2018 IFC 903.3.7)
	Show fire apparatus access to the building(s) (2018 IFC, 503)
	Show gas, water and electrical cut offs (2018 IFC, 509.1.1)
	Show designated fire lanes (2018 Appendix D)
	Show all tanks & generators (2018 IFC, 1203.1.1)
	Obtain a fuel storage permit for onsite construction (2018 IFC, 105.6.16)
	Show gates across entrances and fire department access roads (2018 IFC, 503.6)
	Provide underground fire line location and size (2016 NFPA 13, 10.8)
	Show fire sprinkler riser location (2018 IFC, 509)
	Show Knox box location (IFC 503)
	If any hazardous materials are being used at the business provide a list of chemicals
	and their quantities (2018 IFC, 5001.5.2)

AFFIDAVIT:

(print name)	understand by
signing below I agree that I have noted all the re	equirements on my submitted set of
plans and I acknowledge that failure to do so w	ill result in the plans being returned
until such requirements are addressed on the s	et of plans and additional plan review
fees could added with an additional plan review	wait time not limited to 2-6 weeks.
Signature:	Date: